

### Summary of Municipal Preliminary Screener Results

Facility		Project Costs (2014\$)			Existing Annual Household Costs <sup>2</sup>	Number of Households <sup>2</sup>	Household Cost Share <sup>2</sup>	Total Costs Per Household <sup>3</sup>	MHI (2014\$) <sup>4</sup>	MPS <sup>5</sup>
		Capital (mil)	O&M	Annualized <sup>1</sup>						
Boulder		\$2.64	\$130,500	\$299,848	\$299,136	656	92.5%	\$879	\$36,249	2.4%
Chinook		\$3.24	\$79,900	\$287,737	\$446,863	694	100%	\$1,059	\$38,267	2.8%
Grass Range		\$0.63	\$21,300	\$61,713	\$11,376	79	100%	\$925	\$24,861	3.7%
Hamilton		\$12.87	\$508,200	\$1,333,774	\$373,705	1,489	34.8%	\$563	\$26,023	2.2%
Havre		\$11.68	\$798,600	\$1,547,838	\$1,294,000	3,056	69.1%	\$643	\$43,483	1.5%
Roundup <sup>6</sup>	low	\$4.39	\$34,300	\$315,906	\$200,304	690	75.1%	\$634	\$31,616	2.0%
	high	\$5.29	\$86,200	\$425,538				\$753		2.4%
Sun Prairie		\$2.60	\$44,700	\$211,483	\$201,750	625	100%	\$661	\$52,282	1.4%
Vaughn		\$1.23	\$12,100	\$91,001	\$110,208	287	97%	\$692	\$46,154	1.5%

MHI = median household income

MPS = municipal preliminary screener

O&M = operations and maintenance (including labor)

1. Capital costs annualized at 2.5% (FY2016 interest rate for loans from the Montana Water Pollution Control State Revolving Fund) over 20 years plus annual O&M costs.

2. Existing annual household costs, number of households, and share of costs borne by households derived from a variety of assumptions and sources including personal communications from municipal staff, permit fact sheets, U.S. Census Bureau information on the persons per household, a 2014 Montana rate survey from the Rural Community Assistance Corporation, and Annual Financial Statements for communities (where available). See individual write-ups for more information.

3. [Existing annual household costs plus (annualized project costs times household share of costs)] divided by number of households.

4. Based on U.S. Census Bureau American Community Survey 5-year data for 2009 to 2013, updated to 2014\$ using the Consumer Price Index (2014=236.74; 2013=232.96).

5. Total per-household costs divided by MHI. According to EPA's 1995 Guidance, if the MPS is less than 1% (i.e., annual household pollution control costs would be less than 1% of MHI), there will not be a substantial economic impact. If the MPS is higher than 1%, then the impacts may be substantial and the discharger proceeds to the second part of the test.

6. We evaluated two scenarios for Roundup: the "low" estimate assumes limits would be based on TN only, while the "high" estimate assumes limits would be based on TN and TP.

### Sensitivity Analysis for MPS and Combined MPS and Secondary Score Results

Facility	Annualized Costs (2014\$)			MPS <sup>5</sup>			Secondary Score		Potential for Substantial Impacts
	Standard	Alternative 1 <sup>1</sup>	Alternative 2 <sup>2</sup>	Standard	Alternative 1 <sup>1</sup>	Alternative 2 <sup>2</sup>	EPA Guidance	Montana Method	
Boulder	\$299,848	NC	NC	2.4%	NC	NC	2.3	1.8	Likely
Chinook	\$287,737	\$325,586	\$479,233	2.8%	2.9%	3.5%	2.3	1.6	Likely

Grass Range		\$61,713	\$65,253	\$95,068	3.7%	3.9%	5.4%	2.5	1.6	Likely
Hamilton		\$1,333,774	\$1,357,022	\$1,967,337	2.2%	2.2%	2.7%	2.3	1.4	Likely
Havre		\$1,547,838	\$1,344,033	\$1,965,709	1.5%	1.4%	1.7%	2.1	2.0	Uncertain
Roundup <sup>6</sup>	low	\$315,906	\$416,565	\$624,685	2.0%	2.4%	3.1%	2.3	1.8	Likely
	high	\$425,538	\$516,883	\$767,739	2.4%	2.7%	3.6%			Likely
Sun Prairie <sup>3</sup>		\$211,483	\$254,831	\$378,122	1.4%	1.6%	2.0%	2.7	2.3	Unlikely (Guidance) Uncertain (Montana)
Vaughn <sup>3</sup>		\$91,001	\$117,498	\$175,903	1.5%	1.7%	2.1%	2.7	2.0	Unlikely (Guidance) Uncertain or Likely (Montana)

NC = not calculated

1. Annualized cost based on 5% interest rate and 15% labor cost.

2. Annualized cost based on 7% interest rate and 48% labor cost.

3. Financial data for Secondary Score are incomplete. This data gap adds additional uncertainty to the analysis of potential for substantial impacts.